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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/890,550	01/14/2002	Kazutaka Majima	2000-22	4691
7590 10/28/2004  J Rodman Steele Jr Akerman Senterfitt & Eidson			EXAMINER	
			VO, HAI	
Post Office PO			ART UNIT	PAPER NUMBER
West Palm Beach, FL 33402-3188			1771	
			DATE MAILED: 10/28/2004	DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/890,550	MAJIMA ET AL.			
		Examiner	Art Unit			
		Hai Vo	1771			
The MAILING DATE of Period for Reply	this communication	appears on the cover sheet wi	ith the correspondence address			
- Extensions of time may be available un after SIX (6) MONTHS from the mailing If the period for reply specified above is If NO period for reply is specified above - Failure to reply within the set or extende	der the provisions of 37 CF date of this communication less than thirty (30) days, it, the maximum statutory and period for reply will, by so an three months after the national communication.	FR 1.136(a). In no event, however, may a rent.	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.			
Status						
1) Responsive to commun	ication(s) filed on 1	8 October 2004				
2a) ☐ This action is <b>FINAL</b> .		This action is non-final.				
			ers, prosecution as to the merits is			
closed in accordance wi	th the practice und	er <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims			•			
4)⊠ Claim(s) <u>43-54</u> is/are pe	nding in the applica	ation				
		drawn from consideration.				
5) Claim(s) <u>43-46,50 and 5</u>	1 is/are allowed.	aram mom consideration.				
6) Claim(s) 47 and 52 is/are						
7)⊠ Claim(s) <u>48,49,53 and 5</u>	4 is/are objected to	).				
8) Claim(s) are subj	ect to restriction an	d/or election requirement.				
Application Papers						
9) The specification is object	ted to by the Exam	niner.				
10) The drawing(s) filed on _			v the Evaminer			
Applicant may not request t	hat any objection to	the drawing(s) be held in abeyand	e. See 37 CFR 1 85(a)			
Replacement drawing shee	t(s) including the con	rection is required if the drawing(s	s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is	objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
riority under 35 U.S.C. § 119		,				
12) Acknowledgment is made	of a claim for fore	ian priority under 35 U.S.C. 8	110(a) (d) or (f)			
a) ☐ All b) ☐ Some * c) ☐	None of:	9. Priority and or 0.0.0. 9	1 13(a)-(u) 01 (1).			
2. Certified copies of	the priority docume	ents have been received in App	plication No			
3. ☐ Copies of the certif	ied copies of the p	riority documents have been re	eceived in this National Stage			
application from the	e International Bure	eau (PCT Rule 17.2(a)).	socived in this National Stage			
* See the attached detailed (	Office action for a li	ist of the certified copies not re	eceived.			
		·				
tachmont(a)						
tachment(s)  Notice of References Cited (PTO-892	`					
Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
Information Disclosure Statement(s) (	PTO-1449 or PTO/SB/(	)8) 5) ∐ Notice of Info	rmal Patent Application (PTO-152)			
Paper No(s)/Mail Date		6) 🔲 Other:	,			

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1. The art rejections are withdrawn.

## **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 47 and 52 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-34 of copending Application No. 10/018708. Although the conflicting claims are not identical, they are not patentably distinct from each other because the combination of claims 2 and 5 reads on every element of the presently claimed subject matter.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
A person shall be entitled to a patent unless –

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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5. Claims 47 and 52 are rejected under 35 U.S.C. 102(a) as being anticipated by WO 99/38651. WO'651 teaches a polishing apparatus comprising a plurality of bonded plates 10, 34, 38 and 44 made of SiC having a thermal conductivity of 29 W/m.K or more and a plurality of fluid passages 32 formed in a bonding interface of the plates 30 and 34 (figure 3, page 9, lines 15-25). It is the examiner's position that WO'651 anticipates the claimed subject matter.

## Allowable Subject Matter

- 6. Claims 43-46, 50, and 51 are allowed.
- 7. Claims 48, 49, 53 and 54 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Tsukada teaches a heat resistant composite body suitable for use in heat resistant jigs comprising silicon carbide crystal with an average size grain within the claimed range, having the thermal conductivity and porosity within the claimed ranges and even the amount of impregnating metal silicon within the claimed range. There is no motivation to combine WO'651 and Tsukada to arrive at the grinding table of the presently claimed invention. One of skill in the art would not look to the Tsukada invention which is associated with the high resistant jig when faced with the problem of thermal conductivity and porosity of the grinding table. Additionally, the inclusion of a bonding layer formed from the metal silicon to bond the ceramic

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metal composite base materials renders the instant claims patentable over the prior art.

8. The art rejections over Ashmead et al (US 5,534,328) in view of Tsukada (US 4,846,673) as evidenced by Kassir et al (US 5,964,646) are withdrawn for the following reasons. Ashmead is directed to an integrated chemical processing apparatus having two inlet ports 20 and 24 enabling the flow of reactants into the apparatus and two outlet ports 30 and 34 enabling the flow of reactants out of the apparatus (figure 1). One of skill in the art would not be motivated to use the integrated chemical processing apparatus for the grinding a semiconductor wafer since these inlet and outlet ports on the top surface of the apparatus would interfere with the grinding process.

#### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on M,T,Th, F, 7:00-4:30 and on alternating Wednesdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information

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for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree).

Hai Vo Tech Center 1700

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